

## Site Development: Landscape and Irrigation Review Median/Right-of-Way

The following checklist should be used as a guide in the preparation for review of landscape/irrigation submittals. Also, refer to Technical Design Manual #8 "Guidelines for Landscaping and Irrigation of Right-of-Ways, Retention Basins, and Parks Development" for complete design requirements. If the applicable items are addressed, review time and corrections required for re-submittal will be reduced.

addressed, review til	me and correct	tions required for re-submittal will be reduced.	r F
If you require assista 480-782		eting this checklist, please call	at
Median landscape ar Development Plans l	•	lans must be reviewed by both the City Landscape Architec	t and Site
Not		plicant information must be completed and to st submitted with the improvement plans.	he
Please r	eturn this (	checklist and redlines with the next plan sul	omittal.
		Applicant Information	
Project Name:			
Address:			
Name of Firm:			
Contact Person:		Phone No.:	
		For City Use	
Reviewed By:		Date:	
Preliminary Review	v No.:		
Site Plan No.:			
Zoning Case No.:			
Comments:			

Rev: 3-7-07

Fax: (480) 782-3075

Telephone: (480) 782-3000

Ite	m	Comments
1.	Show medians on civil plans.	
2.	Include location of overhead and underground utilities, streetlights, signage, etc. Contact the appropriate utility for acceptable plant material species and location.	
3.	All plant material must be selected from the Arizona Department of Water Resources Low Water Use Plant List. Not all plant materials are appropriate for use within the public right-of-way. Palm trees are prohibited.	
4.	No boulders greater than 8" in diameter are allowed in median.	
5.	In medians, provide a minimum tree density in landscape areas 8'-15' wide of one (1) tree per 30' of plantable median length. Medians greater than 15' wide will require increased tree densities.	
6.	In back-of-curb frontage landscape right-of-way areas up to 20' wide, provide one (1) tree per thirty (30) linear feet. For areas wider than 20', increase the tree density by one (1) tree per eight hundred (800) square feet of increased area.	
7.	Maximum spacing between trees is 100'.	
8.	Shrubs and groundcover must provide 50% coverage at maturity.	
9.	Provide a minimum of two (2) and a maximum of five (5) tree species and a minimum of three (3) and a maximum of twelve (12) shrub/groundcover species per design area.	
10.	Include contour lines showing gentle mounds and swales with 4:1 maximum slopes. In medians less than 8' in width, limit grade variations to 6" and less.	
	NOTE: The height of the mounds must be considered when determining compliance with the following sight distance requirements. (Standard Detail C-246)	

Item	Comments
11. Refer to Section C, 2-F, of the "Guidelines for Landscaping and Irrigation of Right-of-Ways, Retention Basins, and Park Development" for requirements for sight distance/visibility clear zones.	
Trees within vehicular sight distance visibility clear zones shall be horizontally spaced and/or offset to prevent creation of a "picket fence" effect.	
■ 75% of any moving vehicle profile must be visible at all times from the origin point of sight distance. (30' minimum spacing for single trunk trees on 90' street alignment and 50' for multi-trunk trees.)	
12. Add note on plans:	
All trees within vehicular sight distance/visibility clear zones shall have a vertical canopy clearance/clear trunk to 6' above the nearest curb.	
13. Add note on plans:	
Trees must maintain a minimum 6' setback from the face of curb (in areas effected by future turn lanes, trees may be placed no less than 4' from face of curb.	
14. No tree may be placed within 50' from the end of the median.	
15. Plant materials that have thorns or sharp protrusions must be restricted to areas separated 3' from pedestrian surface or bicycle lanes.	
16. In back of curb frontage landscape right-of-way areas, maintain a minimum 1' setback from curb and walkways to shrubs and groundcover at maturity. For medians, maintain 2' setback from curb.	
17. Place trees to provide an 8' clearance above sidewalk and 13' 6" clearance above vehicular traffic route.	
18. For medians that include additional width for future lanes, show the location of the future curb. Provide an overall median design that will allow for the future removal of the outer edges while maintaining a total design for the permanent portion of the median to remain. Major components of the irrigation system should not be installed in temporary median areas. Place trees within the permanent area.	

Item	Comments
19. Add note on plans:	
The landscape will be maintained by the developer or contractor for a period of ninety (90) days following a preliminary inspection and acceptance by the City. If not healthy at the end of the maintenance period, the maintenance shall be continued until the plant material is approved by the City.	
20. Specify 2" minimum depth of decomposed granite of uniform depth after settlement. Granite to be Madison Gold ¾" minus. Note on plans.	
21. Add note on plans:	
Contractor must submit a decomposed granite sample to the City Landscape Architect prior to ordering.	
22. Add note on all plan sheets (note to be in 18 pt BOLD):	
Prior to any landscape or irrigation construction in the public right-of-way, the contractor/developer shall notify the City Landsape Architect at 480-782-3428 at least 48 hours in advance of installation work.	
23. Add note on plans:	
All rock groundcover areas shall be sprayed with pre- emergent herbicide by a licensed applicator as part of installation as follows (a minimum of three (3) applications are required):	
<ul><li>Prior to the application of granite: 1/2 gallon per acre</li></ul>	
■ After granite application: 1/2 gallon per acre	
Prior to final acceptance: 1 gallon per acre	
The City shall be furnished with written documentation of the schedule of application dates.	
24. Specify decorative concrete or concrete pavers in median per Standard Detail C-225. Coordinate type of material required at specific locations with City Landscape Architect. For pavers, specify Citystone II, Old Town Blend color. Specify pavers or concrete extended to point median becomes 6' wide, back of curb to back of curb.	

Item	Comments
25. The irrigation system must be designed with trees on separate valves. ONLY rigid type P.V.C. materials may be used. Specify two (2) multi-port drip emitters per tree. Specify one (1) single-port per plant or one (1) multi-port per six (6) plants for shrubs and groundcover. Maximum length of emitter distribution tubing is 5'. Emitter tubing must be buried 4" below finish grade.	
26. Plastic P.V.C. lines below paving shall be installed within separate schedule 40 sleeves. For P.V.C. lines 1"-2½", the sleeve shall be two (2) nominal sizes larger. For P.V.C. lines 3" and larger, the sleeve shall be one (1) size larger.	
27. Specify all new median construction to utilize "purple" equipment and pipe designed for future reclaimed water use.	
28. Reclaimed Water Notes Include the following notes on landscape/irrigatino plans when using effluent water:  SEE ATTACHED EXHIBIT "A" RECLAIMED WATER NOTES	
29. Type K hard copper shall be used for all mainline piping above grade and extending a minimum of 18" and a maximum of 24" below finish grade.	
30. Place irrigation meter, backflow prevention unit and enclosure, metered service (if applicable) and controller in center of median 6' behind face of curb. Backflow unit to be placed within a Guard Shack enclosure. Provide detail on plans.	
31. The irrigation controller is to be a 1BOC Plus series battery operated clock. Note on plans.	
32. Provide Hunter electric ICV valves with latching solenoids. Note valve type on plans.	
33. Provide a Brass shut off bail valve prior to each electric valve. Note on plans.	
34. Include details on plans per Technical Design Manual #8.	

Item			Comments
35. I	nclud	e the following note on plans:	
	Ins	<u>pections</u>	
	app Any ren	e City's individual User Department will inspect and brove the work at the following stages of completion. It work completed without these inspections must be noved prior to acceptance of that phase of work. Ease stages are:	
	<b>A.</b>	Completion of all trenching and installation of all main lines prior to back filling, including the vacuum breaker, quick couplers, electric valves and any isolation valves. The main line shall be pressure tested for thirty (30) minutes at this inspection.	
	В.	Completion of installation of all control wires prior to backfilling.	
	C.	Installation of all lateral valves, lines, and heads prior to backfilling.	
36. I	nclud	e the following note on plans:	
	a C own syst exis rep con insp	or to any construction or utility work starting within ity right-of-way, which will affect existing Cityned and maintained landscaping or irrigation tems, there will be a meeting on site to show that the sting systems or landscaped areas are in proper air and functioning. At the completion of the struction work there will be another meeting and pection on site. The same areas and systems will in be reviewed.	
	syst con the If the City be o pro thes the firm	damage to the landscaping or to the irrigation tem will be the responsibility of the general tractor or utility company and must be repaired to satisfaction of the City within five (5) working days. his work is not completed within the allotted time, the will make the repairs or corrections and money will deducted or billed to the general contractor on the ject. The individuals which should be represented at se on-site meetings shall be: a representative from contractor, a representative from the engineering in or City responsible for the construction inspection a representative from the City Street Department.	

## Site Development Landscape and Irrigation Review Median/Right-of-Way Page 7 of 7

Item	Comments
<ul><li>37. Submit redlines with corrected plans. Include Grading and Drainage, Landscape and Irrigation Plans, and any other information or details needed to demonstrate compliance with codes.</li><li>Also include a narrative explaining method of compliance.</li></ul>	

Planning and Development Department

Form No. UDM-143 Rev: 3-7-07